

I claim:

1. A system for remote monitoring of vertical transportation equipment comprising:

a) vertical transportation equipment;

b) a Remote Terminal Unit linked to said vertical transportation equipment;

c) a Human-Machine Interface Server linked to said Remote Terminal Unit;

d) a Computerized Maintenance Management System Server linked to said Human-Machine Interface; and,

e) remote devices which are communicably linked to said Computerized Maintenance Management System Server.

2. The system of claim 1, further comprising a Camera linked to said Remote Terminal Unit

3. The system of claim 1, further comprising a Video File Server linked to said Human-Machine Interface Server.

4. The system of claim 1, further comprising a Local Area Network linked to said Computerized Maintenance Management System Server.

5. The system of claim 4, further comprising a computer work station linked to said Computerized Maintenance Management System Server by said Local Area Network.

6. A system for remote monitoring of vertical transportation equipment comprising:

a) vertical transportation equipment having a Programmable Logic Control

b) a Remote Terminal Unit linked to said Programmable Logic Control;

5 c) a Camera linked to said Remote Terminal Unit

d) a Human-Machine Interface Server linked to said Remote Terminal Unit;

e) a Computerized Maintenance Management System Server linked to said Human-Machine Interface; and,

10 f) remote devices which are communicably linked to said Computerized Maintenance Management System Server.

7. The system of claim 6, further comprising a Camera linked to said Remote Terminal Unit.

15 8. The system of claim 6, further comprising a Video File Server linked to said Human-Machine Interface Server.

9. The system of claim 6, further comprising a Local Area Network linked to said Computerized Maintenance Management System Server.

20 10. The system of claim 9, further comprising a computer work station linked to said Computerized Maintenance Management System Server by said Local Area Network.

11. A method of monitoring and managing vertical transportation equipment comprising:

a) providing vertical transportation equipment;

b) providing an equipment monitoring system which gathers real-time information corresponding to identified operational parameters for transportation equipment;

c) detecting an equipment fault, failure, or alarm;

5 d) capturing and storing information relating to said equipment fault, failure, or alarm;

e) transmitting said information relating to said equipment fault, failure, or alarm to a server; and

10 f) generating a system alarm corresponding to the equipment fault, failure or alarm;

g) transmitting said system alarm to a remote device

12. The method of claim 11, further comprising:

a) generating a work order which corresponds to said equipment fault;

15 b) transmitting said work order to a Remote Terminal Unit;

c) completing the work order;

d) capturing information from the completed work order;

e) generating predictive and preventative maintenance schedules using information from completed work orders.

20 13. The method of claim 11 or 12, wherein said identified operational parameters are selected from the group consisting of: handrail speed; step speed; current draw on all motors; motor temperatures; electrical consumption; direction of

belt travel; deceleration rates, safety device activation times; comb impact force; total run time; run time by direction; run time since last fault; stop distance; and down time.

14. A method of monitoring vertical transportation equipment comprising gathering real-time information corresponding to identified operational parameters, wherein said operational parameters are selected from the group comprising: speed of travel; current draw on all motors; motor temperatures; electrical consumption; direction of travel; deceleration rates; safety device activation times; comb impact force; total run time; run time by direction; run time since last fault; stop distance; and down time.

15. The method of claim 14, wherein said vertical transportation equipment is selected from the group comprising: escalators, elevators, moving walkways, carousels, revolving doors, and automated doors.

16. The method of claim 15, wherein said gathering of real-time information is performed by electronic means.